HSD50

Integrating Patient-Reported Outcomes into the National Clinical Quality Framework in Türkiye: Opportunities for EQ-5D

Author Block: OZNUR SEYHUN, BSc, MFE, MSc[2], Selin Okcun, MSc[2], Guvenc Kockaya, MSc, PhD, MD[1], Filiz Darici, MSc[3].

[1]Econix Research, Tallin, Estonia, [2]Health Economist, Econix Research, İstanbul, Turkey, [3]Econix Research, İstanbul, Turkey.

OBJECTIVES

Türkiye's national clinical quality program has evolved into a centralized, data-driven monitoring system since 2012. This study aims to examine the structure of Türkiye's national clinical quality system and evaluate opportunities for integrating patient-reported outcome measures (PROMs), particularly EQ-5D, into orthopedic quality assessment.

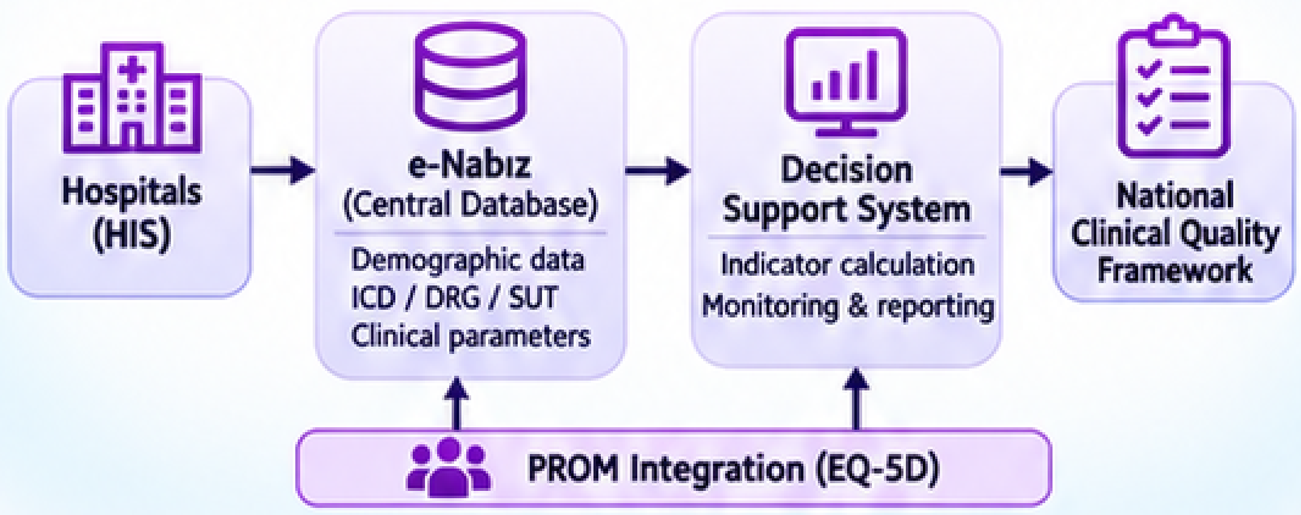
METHODS

A structured policy and document review was conducted based on the 2021 Clinical Quality Measurement and Evaluation Guideline and related regulatory documents. The national quality cycle, data architecture, indicator design, and reporting mechanisms were reviewed. International models of PROM integration in orthopedic registries and national quality systems were also examined to identify alignment opportunities and structural gaps.

RESULTS

The Turkish clinical quality system operates through a five-stage cycle: identification, measurement, evaluation, improvement, and regulation. Clinical data are electronically transferred from hospital information systems to the Ministry of Health's centralized database, e-Nabız, and analyzed through a Decision Support System. The system integrates demographic data, ICD diagnosis codes, DRG codes, SUT procedure codes, and selected clinical parameters. Standardized indicator cards define numerators, denominators, calculation methods, targets, and reporting periods.

Türkiye's Clinical Quality System and PROM Integration



The National Quality Cycle (5 Stages)



Current Orthopedic Quality Indicators (Examples)

- ✔ Short-term complications (e.g., infection, DVT)
- ✔ Reoperation rate
- ✔ Readmission rate
- ✔ Healthcare utilization (e.g., length of stay)

+ PROM Opportunity: EQ-5D for patient-reported health status and health gain

International Experience

EU	EQ-5D widely used in national quality systems and arthroplasty registries.
UK	Routinely collects PROMs (including EQ-5D) in the National Joint Registry (NJR).
US	PROMs integrated in orthopedic quality and value-based care programs.

Key Takeaways

- The Turkish system has a strong data infrastructure (e-Nabız, DSS).
- EQ-5D can complement existing clinical indicators by capturing patient-reported outcomes.
- International evidence shows EQ-5D supports quality monitoring, health gain assessment, and value-based care.
- Integrating EQ-5D would enhance patient-centered evaluation and benchmarking in orthopedics.

CONCLUSIONS

Türkiye's clinical quality system provides a strong foundation for PROM integration. Incorporating EQ-5D would expand orthopedic quality assessment beyond procedural safety toward measurable health gain, patient-centered evaluation, benchmarking, and value-based healthcare.

ECONiX Build Knowledge Secure Access